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# Calcium Carbonate Oral Suspension

General Notices

*NOTE: This monograph has been developed to cover unlicensed formulations.*

**Action and use**

Phosphate binder; treatment of hyperphosphataemia.

## DEFINITION

Calcium Carbonate Oral Suspension is a suspension of Calcium Carbonate in a suitable vehicle.

*The oral suspension complies with the requirements stated under Oral Liquids and with the following requirements. Where appropriate, the oral suspension also complies with the requirements stated under Unlicensed Medicines.*

**Content of calcium carbonate, $CaCO_3$**

90.0 to 110.0% of the stated amount.

## IDENTIFICATION

*It may be necessary to add a drop of a suitable antifoaming agent to a volume of the oral suspension before carrying out the following tests.*

A. Mix 1 volume of the oral suspension with 1 volume of *water* and filter. The filtrate yields reaction C characteristic of *calcium salts*, Appendix VI.
B. Dilute a volume of the oral suspension containing 0.6 g of Calcium Carbonate to 2 volumes with *2M hydrochloric acid*. The resulting solution yields reaction A characteristic of *carbonates*, Appendix VI.

## TESTS

**Acidity or alkalinity**

pH 7.0 to 8.7, Appendix V L.

**Dissolution**

Complies with the requirements stated under Unlicensed Medicines, Oral Suspensions. Use a volume of the oral suspension containing one dose.

## ASSAY

*It may be necessary to add one or two drops of a suitable antifoaming agent to the oral suspension before carrying out the Assay.*

To a weighed quantity of the oral suspension containing 0.15 g of Calcium Carbonate add 3 mL of *dilute hydrochloric acid* and 20 mL of *water*. Boil for 2 minutes, allow to cool and dilute to 50 mL with *water*. Carry out the *complexometric titration*

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*of calcium*, Appendix VIII D. Determine the *weight per ml* of the oral suspension, Appendix V G, and calculate the content of $CaCO_3$, weight in volume.

Each mL of *0.1M sodium edetate* is equivalent to 10.01 mg of $CaCO_3$.

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